

## Abstract

The invention relates to a system which comprises an automotive fuse and an A/D converter. Conventional systems comprising an automotive fuse and an A/D converter are designed such that a measured value is generated at the automotive fuse, which value is then amplified and passed on to the A/D converter via a long signal line. The novel space-saving system is characterized in that the A/D converter is located in close vicinity to the automotive fuse. The automotive fuse supplies the non-amplified, analog measured value for the input of the A/D converter. Signal transmission is carried out digitally via a bus system. It is especially advantageous if all components are housing in a common housing. Signal transmission is then carried out digitally via a bus system. The inventive system is suitable for use in data bus systems of vehicles.